



**INVITATION TO BID**  
**CITY OF NAPLES**  
**PURCHASING DIVISION**  
**CITY HALL, 735 8<sup>TH</sup> STREET SOUTH**  
**NAPLES, FL 34102**  
**PH: 239-213-7100    FX: 239-213-7105**

NOTIFICATION DATE: <b>10/21/13</b>	TITLE <b>TV Trailer System for Pipeline Inspection</b>	NUMBER: <b>14-003</b>	OPENING DATE & TIME: <b>11/07/13 2:00 PM</b>
<b>PRE-BID DATE, TIME AND LOCATION:</b> None			

NAME OF PARTNERSHIP, CORPORATION OR INDIVIDUAL:	
MAILING ADDRESS:	
CITY-STATE-ZIP:	
PH:	EMAIL:
FX:	WEB ADDRESS:

<p>I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder. In submitting a bid to the City of Naples the bidder offers and agrees that if the bid is accepted, the bidder will convey, sell, assign or transfer to the City of Naples all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the State of FL for price fixing relating to the particular commodities or services purchased or acquired by the City of Naples. At the City's discretion, such assignment shall be made and become effective at the time the City tenders final payment to the bidder.</p> <p style="text-align: center;"><b>FEI/EIN Number</b> _____</p>		
AUTHORIZED SIGNATURE	DATE	PRINTED NAME/TITLE
<small>Please initial by all that apply</small> <small>I acknowledge receipt / review of the following addendum</small> ____Addendum #1      ____Addendum #2      ____Addendum #3      ____Addendum #4		

**PLEASE NOTE THE FOLLOWING:**

- > **This page must be completed and returned with your bid.**
- > **Bids must be submitted in a sealed envelope, marked with bid number & closing date.**
- > **Bids received after the above closing date and time will not be accepted.**
- > **If you do not have an email address and you want a copy of the Bid Tab, please enclose a stamped, self-addressed envelope with your bid.**

## GENERAL CONDITIONS

**TO INSURE ACCEPTANCE OF THE BID, PLEASE FOLLOW THESE INSTRUCTIONS. ANY AND ALL SPECIAL CONDITIONS, ATTACHED HERETO, HAVE PRECEDENCE.**

- 1. SEALED BID:** All bids must be submitted in a sealed envelope. The face of the envelope shall contain the bid name and bid number. Bids not submitted on attached bid form shall be rejected. All bids are subject to the conditions specified herein. Those which do not comply with these conditions are subject to rejection.
- 2. EXECUTION OF BID:** Bid must contain a manual signature of authorized representative in the proposal section. Bid must be typed or printed in ink. Use of erasable ink is not permitted. All corrections made by bidder to his bid must be initialed.
- 3. NO BID:** If not submitting a bid, respond by returning the Statement of No Bid and explain the reason in the spaces provided. Failure to respond 3 times in succession without justification shall be cause for removal of the supplier's name from the bid mailing list. NOTE: To qualify as a respondent, bidder must submit a "NO BID," and it must be received no later than the stated bid opening date and hour.
- 4. BID OPENING:** Shall be public, on the date and at the time specified on the bid form. It is the bidder's responsibility to assure that his bid is delivered at the proper time and place of the bid opening. Bids which for any reason are not so delivered will not be considered. Offers by telegram, telephone; or fax are not acceptable. Bid files may be examined during normal working hours.
- 5. WITHDRAWAL OF BIDS:** Withdrawal of a bid within sixty (60) days after the opening of bids is subject to suspension or debarment in accordance with Section 2-668 of the City Code for up to three years.
- 6. PRICES, TERMS and PAYMENT:** Firm Prices include all packing, handling, shipping charges and delivery to the destination shown herein. Bidder is encouraged to offer cash discount for prompt invoice payment. Terms of less than 20 days will not be considered.

  - A. TAXES:** The City of Naples does not pay Federal Excise and Sales taxes on direct purchases of tangible personal property. See exemption number on face of purchase order. This exemption does not apply to purchases of tangible personal property made by contractors who use the tangible personal property in the performance of contracts for the improvement of City-owned real property.
  - B. MISTAKES:** Bidders are expected to examine the specifications, delivery schedule, bid prices, extensions, and all instructions pertaining to supplies and services. Failure to do so will be at bidder's risk. In case of mistake in extension, the unit price will govern.
  - C. CONDITION AND PACKAGING:** It is understood and agreed that any item offered or shipped as a result of this bid shall be a new, current standard production model available at the time of this bid. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.
  - D. SAFETY STANDARDS:** Unless otherwise stipulated in the bid, all manufactured items and fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards there under.
  - E. UNDERWRITERS' LABORATORIES:** Unless otherwise stipulated in the bid, all manufactured items and fabricated assemblies shall carry U.L. approval and re-examination listing where such has been established.
  - F. PAYMENT:** Payment will be made by the buyer after the items awarded to a vendor have been received, inspected, and found to comply with award specifications, free of damage or defect and properly invoiced. All invoices shall bear the purchase order number. Payment for partial shipments shall not be made unless specified in the bid. Failure to follow these instructions may result in delay in processing invoices for payment. In addition, the purchase order number must appear on bills of lading, packages, cases, delivery lists and correspondence.
- 7. DELIVERY:** Unless actual date of delivery is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for making an award (see Special Conditions). Delivery shall be within the normal working hours of the user, Monday through Friday, unless otherwise specified.

**8. MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS:** Any manufacturers' names, trade names, brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. The bidder may offer any brand for which he is an authorized representative, which meets or exceeds the specification for any item(s). If bids are based on equivalent products, indicate on the bid form the manufacturer's name and number. Bidder shall submit with his proposal, cuts, sketches, and descriptive literature, and/or complete specifications. Reference to literature submitted with a previous bid will not satisfy this provision. The bidder shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids which do not comply with these requirements are subject to rejection. Bids lacking any written indication of intent to quote an alternate brand will be received and considered in complete compliance with the specifications as listed on the bid form.

**9. INTERPRETATIONS:** Any questions concerning conditions and specifications shall be directed in writing to this office for receipt no later than ten (10) days prior to the bid opening. Inquiries must reference the date of bid opening and bid number. Failure to comply with this condition will result in bidder waiving his right to dispute the bid.

**10. CONFLICT OF INTEREST:** All bid awards are subject to Section 2-973 Conflict of Interest, City of Naples Code of Ordinances, which states: *"No public officer or employee shall have or hold any employment or contractual relationship with any business entity or any agency which is subject to the regulation of or is doing business with the city; nor shall an officer or employee have or hold any employment or contractual relationship that will create a continuing or frequently recurring conflict between his private interests and the performance of his public duties or that would impede the full and faithful discharge of his public duties. Any member of the city council or any city officer or employee who willfully violates this section shall be guilty of malfeasance in office or position and shall forfeit his office or position. Violation of this section with the knowledge, express or implied, of the person or corporation contracting with or making a sale to the city shall render the contract or sale voidable by the city manager or the city council."*

**11. AWARDS:** As the best interest of the City may require, the right is reserved to make award(s) by individual item, group of items, all or none, or a combination thereof; to reject any and all bids or waive any minor irregularity or technicality in bids received.

**12. ADDITIONAL QUANTITIES:** For a period not exceeding ninety (90) days from the date of acceptance of this offer by the buyer, the right is reserved to acquire additional quantities up to but not exceeding those shown on bid at the prices bid in this invitation. If additional quantities are not acceptable, the bid sheets must be noted "BID IS FOR SPECIFIED QUANTITY ONLY." (THIS PARAGRAPH DOES NOT APPLY FOR A TERM CONTRACT.)

**13. SERVICE AND WARRANTY:** Unless otherwise specified, the bidder shall define any warranty service and replacements that will be provided during and subsequent to this contract. Bidders must explain on an attached sheet to what extent warranty and service facilities are provided.

**14. SAMPLES:** Samples of items, when called for, must be furnished free of expense, on or before bid opening time and date, and if not destroyed may, upon request, be returned at the bidder's expense. Each individual sample must be labeled with bidder's name, manufacturer's brand name and number, bid number and item reference. Request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with your bid. If instructions are not received within this time, the commodities shall be disposed of by the City of Naples.

**15. BID PROTEST:** The city has formal bid protest procedures that are available on request.

**16. INSPECTION, ACCEPTANCE AND TITLE:** Inspection and acceptance will be at destination unless otherwise provided. Title and risk of loss or damage to all items shall be the responsibility of the contract supplier until accepted by the ordering agency, unless loss or damage results from negligence by the ordering

**17. DISPUTES:** In case of any doubt or difference of opinion as to the items to be furnished hereunder, the decision of the buyer shall be final and binding on both parties.

**18. GOVERNMENTAL RESTRICTIONS:** In the event any governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered on this proposal prior to their delivery, it shall be the responsibility of the successful bidder to notify the buyer at once, indicating in his letter the specific regulation which required an alteration. The City reserves the right to accept any such alteration, including any price adjustments occasioned thereby, or to cancel the contract at no expense to the City.

**19. LEGAL REQUIREMENTS:** Applicable provision of all Federal, State, county and local laws, and of all ordinances, rules, and regulations shall govern development submittal and evaluation of all bids received in response hereto and shall govern any and all claims and disputes which may arise between person(s) submitting a bid response hereto and the City of Naples by and through its officers, employees and authorized representatives, or any other person, natural or otherwise; and lack of knowledge by any bidder shall not constitute a cognizable defense against the legal effect thereof.

**20. PATENTS AND ROYALTIES:** The bidder, without exception, shall indemnify and save harmless the City of Naples and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the City of Naples. If the bidder uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

**21. ADVERTISING:** In submitting a bid, bidder agrees not to use the results there from as a part of any commercial advertising.

**22. ASSIGNMENT:** Any Purchase Order issued pursuant to this bid invitation and the monies which may become due hereunder are not assignable except with the prior written approval of the buyer.

**23. LIABILITY:** The supplier shall hold and save the City of Naples, its officers, agents, and employees harmless from liability of any kind in the performance of this contract.

**24. PUBLIC ENTITY CRIMES:** A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

**25. DISCRIMINATION:** An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor, or consultant under contract with any public entity, and may not transact business with any public entity.

**26. COUNTY TAXES:** No proposal shall be accepted from and no contract will be awarded to any person, firm or corporation that is in arrears to the government of Collier County, Florida.

**27. OFFER EXTENDED TO OTHER GOVERNMENTAL ENTITIES:** The City of Naples encourages and agrees to the successful bidder/proposer extending the pricing, terms and conditions of this solicitation or resultant contract to other governmental entities at the discretion of the successful bidder/proposer.

**IF THIS BID IS FOR A TERM CONTRACT, THE FOLLOWING CONDITIONS SHALL ALSO APPLY**

**28. ELIGIBLE USERS:** All departments of the City of Naples are eligible to use this term contract. Such purchases shall be exempt from the competitive bid requirements otherwise applying to their purchases.

**29. PRICE ADJUSTMENTS:** Any price decrease effectuated during the contract period by reason of market change shall be passed on to City of Naples. Price increases are not acceptable.

**30. CANCELLATION:** All contract obligations shall prevail for at least one hundred eighty (180) days after effective date of contract. After that period, for the protection of both parties, this contract may be cancelled in whole or in part by either party by giving thirty (30) days prior written notice to the other party.

**31. RENEWAL:** The City of Naples reserves the option to renew the period of this contract, or any portion thereof for up to two (2) additional periods. Renewal of the contract period shall be by mutual agreement in writing.

**32. ABNORMAL QUANTITIES:** While it is not anticipated, should any unusual or abnormal requirements arise, the City reserves the right to solicit separate bids thereon.

**33. FISCAL NON-FUNDING CLAUSE:** In the event sufficient funds are not budgeted for a new fiscal period, the City shall notify the contractor of such occurrence and the contract shall terminate on the last day of the current fiscal year without penalty or expense to the City.

**IF THIS BID IS FOR PERFORMING A SERVICE, THE FOLLOWING CONDITIONS SHALL ALSO APPLY**

**34. ALTERNATIVE BIDS:** Bidders offering service delivery methods other than those permitted by the scope of work may submit a separate envelope clearly marked "ALTERNATIVE BID". Alternative bids will be deemed non-responsive and will not be considered for award. All such responses will, however, be examined prior to award. Such examination may result in cancellation of all bids received to permit rewriting the scope of work to include the alternative method, or the alternative method may be considered for future requirements of the City of Naples.

**35. ANTITRUST:** By entering into a contract, the contractor conveys, sells, assigns and transfers to the City of Naples all rights, titles and interest it may now have or hereafter acquire under the antitrust laws of the United States and the State of Florida that relate to the particular goods or services purchased or acquired by the City of Naples under said contract.

**36. BIDDER INVESTIGATIONS:** Before submitting a bid, each bidder shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by the City of Naples upon which the bidder will rely. If the bidder receives an award as a result of its bid submission, failure to have made such investigations and examinations will in no way relieve the bidder from its obligation to comply in every detail with all provisions and requirements of the contract documents, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

**37. CERTIFICATES AND LICENSES:** The Contractor, at time of proposal, shall possess the correct occupational licenses, all professional licenses or other authorizations necessary to carry out and perform the work required by the City of Naples and Collier County for this project pursuant to all applicable Federal, State and Local Laws, Statutes, Ordinances, and rules and regulations of any kind.

**38. CHANGE IN SCOPE OF WORK:** The City of Naples may order changes in the work consisting of additions, deletions or other revisions within the general scope of the contract. No claims may be made by the contractor that the scope of the project or of the contractor's services has been changed, requiring changes to the amount of compensation to the contractor or other adjustments to the contract unless such changes or adjustments have been made by written amendment to the contract signed by the City of Naples and the contractor. If the contractor believes that any particular work is not within the scope of the project, is a material change, or will otherwise require more compensation to the contractor, the contractor must immediately notify the City in writing of this belief. If the City believes that the particular work is within the scope of the contract as written, the contractor will be ordered to and shall continue with the work as changed and at the cost stated for the work within the scope.

**39. CONTRACTOR PERSONNEL:** The City of Naples shall, throughout the life of the contract, have the right of reasonable rejection and approval of staff or subcontractors assigned to the work by the contractor. If the City

reasonably rejects staff or subcontractors, the contractor must provide replacement staff or subcontractors satisfactory to the City in a timely manner and at no additional cost to the City. The day-to-day supervision and control of the contractor's employees and sub-contractors is the responsibility solely of the contractor.

**40. COST REIMBURSEMENT:** The contractor agrees that all incidental costs, including allowances for profit and tools of the trade, must be included in the bid proposal rates. If an arrangement is made between the contractor and the City to reimburse the contractor for the cost of materials provided in the performance of the work, the contractor shall be reimbursed in the following manner: The City shall reimburse the contractor on completion and acceptance of each assigned job, only for those materials actually used in the performance of the work that is supported by invoices issued by the suppliers of the contractor describing the quantity and cost of the materials purchased. No surcharge shall be added to the supplier's invoices or included in the contractor's invoice submitted to the City that would increase the dollar amount indicated on the supplier's invoice for the materials purchased for the assigned job.

**41. EXCEPTIONS:** Bidders taking exception to any part or section of the solicitation shall indicate such exceptions on the bid form. Failure to indicate any exception will be interpreted as the bidder's intent to comply fully with the requirements as written. Conditional or qualified bids, unless specifically allowed, shall be subject to rejection in whole or in part.

**42. FAILURE TO DELIVER:** In the event of the contractor to fail to deliver services in accordance with the contract terms and conditions, the City, after due oral or written notice, may procure the services from other sources and hold the contractor responsible for any resulting purchase and administrative costs. This remedy shall be in addition to any other remedies that the City may have.

**43. FAILURE TO ENFORCE:** Failure by the City at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the City to enforce any provision at any time in accordance with its terms.

**44. FORCE MAJEURE:** The contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions and acts of God beyond the control of the contractor, unless otherwise specified in the contract.

**45. INDEPENDENT CONTRACTOR:** The contractor shall be legally considered an independent contractor and neither the contractor nor its employees shall, under any circumstances, be considered servants or agents of the City of Naples and the City of Naples shall be at no time legally responsible for any negligence or any wrongdoing by the contractor, its servants or agents. The City of Naples shall not withhold from the contract payments to the contractor any federal income taxes, Social Security tax, or any other amounts for benefits to the contractor. Further, the City shall not provide to the contractor any insurance coverage or other benefits, including Workers' Compensation normally provided by the City for its employees.

**46. ORAL STATEMENTS:** No oral statement of any person shall modify or otherwise affect the terms, conditions or specifications stated in this contract. All modifications to the contract must be made in writing by the City of Naples.

**47. QUALIFICATIONS OF BIDDERS:** The bidder may be required, before the award of any contract, to show to the complete satisfaction of the City of Naples that it has the necessary facilities, ability, and financial resources to provide the service specified therein in a satisfactory manner. The bidder may also be required to give a past history and references in order to satisfy the City in regard to the bidder's qualifications. The City may make reasonable investigations deemed necessary and proper to determine the ability of the bidder to perform the work, and the bidder shall furnish to the City all information for this purpose that may be requested. The City reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy the City that the bidder is properly qualified to carry out the obligations of the contract and to complete the work described therein. Evaluation of the bidder's qualifications shall include:

- > The ability, capacity, skill and financial resources to perform the work or service.
- > The ability to perform the work service promptly or within the time specified, without delay.
- > The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
- > The quality of performance of previous contracts or services.

**48. QUALITY CONTROL:** The contractor shall institute and maintain throughout the contract period a properly documented quality control program designed to ensure that the services are provided at all times and in all respects in accordance with the contract. The program shall include providing daily supervision and conducting frequent inspections of the contractor's staff and ensuring that accurate records are maintained describing the disposition of all complaints. The records so created shall be open to inspection by the City.

**49. RECOVERY OF MONEY:** Whenever, under the contract, any sum of money shall be recoverable from or payable by the contractor to the City, the same amount may be deducted from any sum due to the contractor under the contract or under any other contract between the contractor and the City. The rights of the City are in addition and without prejudice to any other right the City may have to claim the amount of any loss or damage suffered by the City on account of the acts or omissions of the contractor.

**50. REQUIREMENTS CONTRACT:** During the period of the contract, the contractor shall provide all the services described in the contract. The contractor understands and agrees that this is a requirements contract and that the City shall have no obligation to the contractor if no services are required. Any quantities that are included in the scope of work reflect the current expectations of the City for the period of the contract. The amount is only an estimate and the contractor understands and agrees that the City is under no obligation to the contractor to buy any amount of services as a result of having provided this estimate or of having any typical or measurable requirement in the past. The contractor further understands and agrees that the City may require services in excess of the estimated annual contract amount and that the quantity actually used whether in excess of, or less than, the estimated annual contract amount and that the quantity actually used shall not give rise to any claim for compensation other than the total of the unit prices in the contract for the quantity actually used.

**51. TERMINATION FOR CONVENIENCE:** The performance of work under the contract may be terminated by the City in whole or in part whenever the City determines that termination is in the City's best interest. Any such termination shall be effected by the delivery to the contractor of a written notice of termination of at least seven (7) days before the date of termination, specifying the extent to which performance of the work under the contract is terminated and the date upon which such termination becomes effective. After receipt of a notice of termination, except as otherwise directed, the contractor shall stop work on the date of the receipt of the notice or other date specified in the notice; place no further orders or subcontracts for materials, services or facilities except as necessary for completion of such portion of the work not terminated; terminate all vendors and subcontracts; and settle all outstanding liabilities and claims.

**52. TERMINATION FOR DEFAULT:** The City of Naples reserves the right to terminate the contract if the City determines that the contractor has failed to perform satisfactorily the work required, as determined by the City. In the event the City decides to terminate the contract for failure to perform satisfactorily, the City shall give to the contractor at least seven (7) days written notice before the termination takes effect. The seven-day period will begin upon the mailing of notice by the City. If the contractor fails to cure the default within the seven (7) days specified in the notice and the contract is terminated for failure to perform satisfactorily, the contractor shall be entitled to receive compensation for all reasonable, allocable and allowable contract services satisfactorily performed by the contractor up to the date of termination that were accepted by the City prior to the termination. In the event the City terminates the contract because of the default of the contractor, the contractor shall be liable for all excess costs that the City is required to expend to complete the work under contract.

**53. STATE AND FEDERAL EMPLOYMENT LAWS:** Contractors providing service to the City are required to comply with all state and federal employment laws. This includes, but is not limited to, laws resulting from the Immigration and Reform and Control Act of 1986, wherein all employers are required to verify the identity and employment eligibility of all employees. The Department of Homeland Security, U.S. Citizenship and Immigration Services require employees and employers to complete Form I-9 and the employer must examine evidence of identity and employment eligibility within three business days of the date employment begins. Non compliant contractors will be subject to contract sanctions, up to and including contract termination.

**54. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION:** The contractor agrees to comply with Executive Order 12549 "Debarment and Suspension" and 2 CFR 180 "OMB Guidelines to Agencies on Government wide Debarment and Suspension." These rules require all contractors using federal funds not be debarred or suspended from doing business with the

Federal Government. This includes sub-recipients and lower tier participant for covered transactions. Signing and submitting this document certified the organization and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency, and further have not within the preceding three-year period been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction .

**THE CITY OF NAPLES IS AN EQUAL OPPORTUNITY EMPLOYER**



## GENERAL INSURANCE REQUIREMENTS

The Contractor shall not commence work until he has obtained all the insurance required under this heading, and until such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work until all similar insurance required of the subcontractor has also been obtained and approved by the Owner.

Certificates of insurance must be issued by an authorized representative of the insurance company at the request and direction of the policyholder and must include sufficient information so as to identify the coverage and the contract for Owner's improvements for which they are issued. Certificates of insurance must be issued by a nationally recognized insurance company with a Best's Rating of no less than B+VII, satisfactory to the Owner, and duly licensed to do business in the state of said Contract.

The Contractor shall procure and maintain, during the life of this Contract, Worker's Compensation Insurance for all of his employees to be engaged in work under this Contract, and he shall require any subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees to be engaged in such work, unless such employees are covered by the protection afforded by the Contractor's insurance. In case any employees are to be engaged in hazardous work under this Contract, and are not protected under this Worker's Compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, adequate coverage for the protection of such employees. It is acceptable to use a State-approved Worker's Compensation Self-Insurance fund.

The Contractor shall take out and maintain during the life of this Contract, Public Liability and Property Damage and shall include Contractual Liability, Personal Injury, Libel, Slander, False Arrest, Malicious Prosecution, Wrongful Entry or Eviction, Broad Form Property Damage, Products, Completed Operations and XCU Coverage to be included on an occurrence basis, and to the full extent of the Contract to protect him, the Owner, and any subcontractor performing work covered by this Contract from damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from operations under this contract, whether such operations be by himself or by a subcontractor, or by anyone directly or indirectly employed by either of them. The Contractor shall also maintain automobile liability insurance including "non-owned and hired" coverage. The entire cost of this insurance shall be borne by the Contractor.

The amount of such insurance shall be no less than \$1,000,000 annual aggregate for bodily injury and property damage combined per occurrence.

The City of Naples must be named as Additional Insured on the insurance certificate and the following must also be stated on the certificate. "This coverage is primary to all other coverage the City possesses for this contract only." The City of Naples shall be named as the Certificate Holder. The Certificate Holder shall read as follows:

The City of Naples  
735 Eighth Street South  
Naples, Florida 34102

No City Division, Department, or individual name should appear on the Certificate.

No other format will be acceptable.

The Certificate must state the proposal number and title.

When using the "Accord"- 25 Certificate of Insurance only the most current version will be accepted.

The City of Naples requires a copy of a cancellation notice in the event the policy is cancelled. The City of Naples shall be expressly endorsed onto the policy as a cancellation notice recipient.

**STATEMENT OF NO BID**

If you will not be bidding on this product/service, please help us by completing and returning only this page to:

City of Naples, Purchasing Division  
City Hall, 735 8<sup>th</sup> Street South  
Naples, FL 34102  
Fax 239-213-7105

Bid # \_\_\_\_\_ and Description: \_\_\_\_\_

We, the undersigned, decline to proposal on the above project for the following reason(s):

- \_\_\_ We are not able to respond to the Invitation to Bid or Request for Proposals by the specified deadline.
- \_\_\_ Our Company does not offer this product or service.
- \_\_\_ Our current work schedule will not permit us to perform the required services.
- \_\_\_ Specifications are incomplete or information is unclear  
(Please explain below).

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_ Other (Please specify below)

\_\_\_\_\_  
\_\_\_\_\_

Company Name \_\_\_\_\_ PH \_\_\_\_\_

Name and Title of individual completing this form:

\_\_\_\_\_  
(Printed Name) (Title)

\_\_\_\_\_  
(Signature) (Date)

**REFERENCES**

**THIS SHEET MUST BE COMPLETED AND RETURNED WITH BID**

**PROVIDE AT LEAST THREE REFERENCES FOR WHOM YOUR COMPANY HAS PROVIDED SAME OR SIMILAR SERVICES WITHIN THE LAST 2 YEARS.**

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**CONTACT E-MAIL ADDRESS:** \_\_\_\_\_

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**CONTACT E-MAIL ADDRESS:** \_\_\_\_\_

**COMPANY NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**CONTACT PERSON:** \_\_\_\_\_

**CONTACT E-MAIL ADDRESS:** \_\_\_\_\_

ACQUISITIONS  
SPECIAL CONDITIONS

- A. TERMS OF CONTRACT: The resulting contract will commence on award and be in effect until completion of the project.
- B. PROHIBITION OF CONTACT: Under no circumstances should any prospective organization or individual, or anyone acting for or on behalf of a prospective organization or individual, seek to influence or gain the support of any member of the City Council, public official or City staff favorable to the interest of any prospective organization or individual. Likewise, contact with City Council, any public official or city staff against the interests of other prospective organization (s) and or individual(s) is prohibited. Any such activities will result in the exclusion of the prospective organization or individual from consideration by the City.
- C. REFERENCES: Bidder must submit a minimum of three references on the form provided. **Additionally, a completed IRS W-9 form is required with the bid submission.** Proof of insurance from the successful proposer is required at the time of issuance and award of a contract.
- D. STATEMENT OF NO BID: If you will not be bidding on this producer/service, please help us by completing and returning the Statement of No Bid.
- E. BID FORMAT  
The Contract, if awarded, will be awarded on the basis of material and equipment illustrated and described on the Drawings or specified in the Specification. If a substitution or an "or equal" item is proposed, Proposer must submit this information to the City of Naples Purchasing Department ten (10) days prior to the Proposal Date for evaluation as an acceptable substitution or an "or equal" item. If the substitution or the "or equal" item is accepted, the City of Naples will issue an Addendum to all Proposers listing the allowable substitution or the "or equal" item. The cost of changes in related work, additional drawings which may be required to illustrate or define the substitute or "or equal" equipment and its relationship to the other parts or portions of the Work shall be paid by the Contractor. No change will be made in the amount of time in which to complete the Work or in the liquidated damages.
- F. QUESTIONS: Questions regarding this proposer packet must be received in writing in the Purchasing Division, **NO LATER THAN TEN CALENDAR DAYS PRIOR TO THE PROPOSAL CLOSING DATE TO ENSURE AN ANSWER IS PROVIDED PRIOR TO CLOSING.**

Direct all questions to:  
Gerald "Jed" Secory, MBA / CPPO / CPM  
Purchasing Manager  
City of Naples, Purchasing Division  
735 8<sup>th</sup> Street South  
Naples, Florida 34102  
PH: (239) 213-7102 FX: (239) 213-7105  
[Jsecory@naplesgov.com](mailto:Jsecory@naplesgov.com)

## SUBMISSION CHECKLIST

Bidder should check off each of the following items as completed and submit with bid response:

CHECKLIST ELEMENTS	INCLUDED
<ul style="list-style-type: none"> <li>Submit one (1) original signature and one (1) copy of to your original bid proposal / document <b>AND</b> a Windows© compatible PDF of the original document on a CD that is clearly labeled.</li> </ul>	
<ul style="list-style-type: none"> <li>Include any required drawings; descriptive literature; qualifications; schedules; product compliance / exceptions; alternatives; questionnaire; references, forms, tabs, pricing/cost; and any information required of the proposer identified in the text of the bid including information for bid evaluation.</li> </ul>	
<ul style="list-style-type: none"> <li>Include any delivery information.</li> </ul>	
<ul style="list-style-type: none"> <li>Mandatory <b>FORMS</b> from this document to be included are: <u>Cover Sheet</u>, <u>References Sheet</u>, <u>Submission Checklist Sheet</u>, <u>Specification Compliance</u> and <u>Cost Sheet / Compensation Schedule</u>.</li> </ul>	
<ul style="list-style-type: none"> <li>Have an authorized individual sign the appropriate pages including the <u>Cover Sheet</u> with any bid addendums initialed. Also, examples of vendor contracts used by the City can be found on the Naples Purchasing web site and should be reviewed by the vendor.</li> </ul>	
<ul style="list-style-type: none"> <li>Bid proposal / document needs to be received by the <b>OPENING DATE &amp; TIME</b> indicated on the Cover Sheet. The mailing envelope must be addressed to:  <div style="text-align: center;">                     City of Naples                      Purchasing Division                      735 8<sup>th</sup> Street South                      Naples, Florida 34102                 </div> </li> </ul>	
<p style="text-align: center;">The mailing envelope should be sealed and marked with:                      BID Number:                      BID Title:                      BID Opening Date:</p>	

**ALL COURIER DELIVERED PROPOSALS MUST HAVE THE BID NUMBER AND TITLE ON THE OUTSIDE OF THE COURIER PACKET.**

*At the discretion of the Purchasing Manager, bids or proposals with minor irregularities may be accepted and allowed to be corrected when in the best interest of the City.*

# **TV Trailer System for Pipeline Inspection Bid Specifications BID 14-003**

## **Specifications Sections**

- SCOPE OF SERVICES
- TV TRAILER SYSTEM
- COMPONENT LIST
- TV TRAILER - 14' TANDEM AXLE
- TRAILER INTERIOR / INTERIOR
- GASOLINE GENERATOR W/ELECTRIC START - 5500 WATT
- GENERATOR COMPARTMENT
- SYSTEM ENGINEERING PANEL
- PAN, TILT, and OPTICAL ZOOM CAMERA
- ELECTRICAL SPECIFICATIONS
- CAMERA REQUIREMENTS
- SELF-PROPELLED CAMERA TRANSPORTER - WITH PROPORTIONAL STEERING
- ELECTRIC CAMERA LIFT (Optional)
- INTEGRATED POWER CONTROL UNIT
- PORTABLE CONTROLLER
- COMBINATION VIDEO TRANSMISSION/TOW CABLE
- MOTORIZED TV CABLE DOLLY ASSEMBLY
- (DVR-SD) RECORDER
- PCU ENCLOSURE FOR DOLLY
- TIGER TAIL
- MANHOLE TOP ROLLER ASSEMBLY
- RETRIEVAL / DOWNHOLE POLE ASSEMBLY
- INSTRUCTION AND TESTING

## **Pricing Sheet**

# SPECIFICATIONS

## SCOPE OF SERVICES

Intent - To purchase TV Trailer System for Pipeline Inspection equipment as specified below for use by the City of Naples, Streets and Stormwater Department.

## TV TRAILER SYSTEM

Each camera, camera transporter, and external lighthouse to be supplied on this specification must be labeled and listed as a minimum by a Nationally Recognized Testing Laboratory (NRTL) to the applicable Standard for Safety for Closed Circuit Television Equipment, UL 2044, 2nd edition, 11/9/01. A listing report must be supplied that certifies the aforementioned equipment is acceptable as defined by 29 CFR 1910.399 and required by 29 CFR 1910.303(a). Self-certification or certification by a laboratory that is not an NRTL will be deemed unacceptable. NRTL labeled and listed equipment shall be supplied as required by the FEDOSHA memorandum, dated September 25, 2002, page 3, Section on Compliance, prepared by John L Henshaw, Assistant Secretary of Occupational Safety and Health.

1. The Optical Zoom Pan and Tilt Camera must have at minimum a 4 step light enhancement feature that increases the light sensitivity of the camera when encountering challenging light conditions:

Comply: Yes\_\_\_\_ No\_\_\_\_

2. The Optical Zoom Pan and Tilt Camera must have built in field replaceable lighting that provides directional lighting for 6"-72" pipe with no requirement to added external lighting. Replaceable light rings will not be accepted. Cameras that require external non-directional lighting to be added to inspect this pipe size range will be deemed not acceptable. Cameras that do not contain field replaceable lighting will be deemed not acceptable:

Comply: Yes\_\_\_\_ No\_\_\_\_

3. The Optical Zoom Pan and Tilt Camera must have built in diagnostics that display on screen on demand that include a humidity sensor, serial number, temperature sensor, camera amperage, and light voltage. Cameras without built in diagnostics will be deemed not acceptable.

Comply: Yes\_\_\_\_ No\_\_\_\_

4. The Optical Pan and Tilt Camera must have the ability to accept built in directional lighting with Xenon LAMPS for 6"-72" lines or built in directional LED LAMPS for 6"-42" lines. The Xenon Lamps and the LED LAMPS must be field replaceable by the operator in the field or will be deemed not acceptable:

Comply: Yes\_\_\_\_ No\_\_\_\_.

5. The Optical Pan and Tilt Camera must have the option to add a precision laser measurement system built into the head of the camera to measure cracks, offsets, and separations in the pipe and display the readings on screen.

Comply: Yes\_\_\_\_ No\_\_\_\_

6. The Optical Pan and Tilt Zoom camera must have the option to add a built in sonde and a built in inclinometer: Sondes mounted outside of the camera body will be deemed not acceptable.

Comply: Yes\_\_\_\_ No\_\_\_\_

7. Individual light modules must be readily field replaceable within 10 minutes with a Phillips screw driver:

Comply: Yes\_\_\_\_ No\_\_\_\_

8. The steerable wheeled camera transporter and the pan and tilt optical zoom camera must be controlled via a wireless hand held pendant controller that integrates the control of all transporter motions to include speed, forward, reverse, steering and all camera pan and tilt, rotation, auto centering, iris and focus overrides plus electric camera lift functions and reel functions. The integrated hand held pendant control must transmit wireless or it will not be accepted:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

9. The steerable camera transporter must have a rear tip-up waterproof bulkhead connector that minimizes the stress / strain on the connections and interface cable during insertion and retrieval. Transporters with stationary connectors that do not move to reduce the stress on the connections and interface cables will be deemed not acceptable:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

10. The steerable wheeled camera transporter shall have a built in two speed transmission that doubles the torque of the transporter drive train when the large diameter tires are installed. Large Line kits that require assembly and disassembly when switching from inspecting small diameter pipe to large diameter pipe will be deemed not acceptable:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

11. The Power Supply / Control unit shall have a minimum 10" Flat Screen Lightweight Monitor with Sun Screen:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

12. The Power Supply / Control unit shall be able to be mounted via heavy duty snap-on hardware on top of the reel and be oriented in any direction to facilitate operation away from direct sunlight:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

13. The unit must be supplied with a wireless integrated hand held portable controller that must have control of all speeds and movements for the pan and tilt zoom camera, transporter, and reel. It must be able to operate from the front, rear, and up to 100 ft. from the unit within line of sight:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

14. The power supply shall have the provision for installation of a wireless receiver to communicate with a wireless hand held controller for the camera, transporter, and reel:

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

15. The video cable must be a minimum of .450" diameter, have 2000 pound break strength, and weigh no more than 110lbs per 1000 ft.

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_



## COMPONENT LIST

The targeted delivery timeframe for a camera system is 75 to 90 days after receiving the order.

Warranties: 3 years on cable and cable reel, 2 years on camera and transporter, 5 years on lights, and free loaners as long as camera is under warranty.

Training periods for equipment and components will be 5 days because of the complexity of these new camera systems and because our staff is not use to operating a camera system.

- 1 7X14 Tandem AXLE TRAILER, 7000 GVWR
- 1 Tandem Axle Trailer

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 TRAILER INTERIOR TO INCLUDE:
  - 1 Amber Electronic Strobe Warning Beacon
  - 2 Adjustable Floodlights Rear of Trailer Area Illumination
- Interior:
  - 1 Dual Bulb Fluorescent Light Fixture
  - 1 Electrical Outlet with Dual Receptacles
  - 1 Fire Extinguisher with Bracket, 10BC Rating

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 9200BTU ROOF MOUNTED AIR CONDITIONER WITH HEAT STRIP

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 BULKHEAD WALL WITH DOOR AND PLEXIGLASS WINDOW FOR TRAILER

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 DESK/WORK AREA FOR TRAILER

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 LONSEAL LONPLATE FLOORING FOR TRAILER

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 110 to 15 GALLON (37.854L to 56.781L) FUEL TANK CARB/EPA FUEL TANK FOR TRAILER

- 1 5500 WATT GAS ONAN EVAPORATOR GENERATOR
  - 1 120 Volt 60 HZ 5500 Watt (Minimum) Commercial Grade Generator
    - 1 Gasoline Powered
    - 1 Electric Start

1 GENERATOR COMPARTMENT

- 1 Generator Remote Start / Stop Cable Assemble
- 1 Generator Storage Compartment with Lockable External Access Door
- 1 Commercial Power Supply Receptacle, 25' Cord, and Plug
- 1 Electrical Supply Center with Circuit Breaker Box
- 1 Commercial power and Generator Power Connectors
- 1 Automatic Power Transfer Switch

1 DIGITAL ENGINEERING PANEL

- 1 Voltage Readout, Power Supply
- 1 Hertz Readout, Power Supply
- 1 Generator Hour Readout
- 1 Remote Generator Start / Stop Control Switch

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 P&T ZOOM M/C CAMERA

- 1 Solid State Color Sewer TV Camera
- 1 Pan & Rotate Camera Head, 40:1 Zoom Ratio, 10x Optical Zoom, 4x Digital Zoom
- 1 NTSC Color Standard with 4x Light Integration
- 1 Camera Lighting System
- 1 Camera Transportation and Storage Case

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 [LITE] STEERABLE CAMERA TRANSPORTER, WHEELED

- 1 Steerable Unit Designed to Turn 360 Degrees Within Its Own Radius
- 1 Two (2) Speed Transmission to Maximize Torque in Large Diameter Pipe
- 1 Unit Shall Have Forward, Free Wheel, and Power Reverse
- 1 Set of Six (6) Driven Steel Wheels to Inspect 8" Pipe
- 1 All Six (6) Wheel Drive Transporter Assembly to Include:
  - 1 Motor & Enclosed Drive Train
- 1 Tip Up Rear 12-Pin Connector
- 1 Transporter Control Unit

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

4 KNOBBY TIRE 18" - 60"

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 ELECTRIC CAMERA LIFT (Opitonal)

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 PCU ASSEMBLY, NTSC

Combination Color Camera Control System / Monitor (110 VAC or 220 VAC, 50 Hz or 60 Hz, NTSC or PAL)

- 1 Mounted in Transportation Cabinet
- 1 10" Flat Screen Monitor & Set of Connecting Jacks for Video In and Video Out
- 1 Integral Data Display System to Include:
  - 1 Alpha Numeric Information Display & Multi Paging and Defect Coding
  - 1 Remote "QWERTY" Keyboard for Data Entry with WRC and PACP Codes
- 1 Test Cable

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 WIRED USB CONTROLLER

- 1 Joystick Control for Pan and Tilt Zoom Camera to Include:
  - 1 360 Degree Rotate
  - 1 330 Degree Optical Pan
- 1 Joystick Control for All Steering Functions & Forward / Reverse Directions for Transporter
- 1 Camera Lift Control for Optional Electronic Camera Lift
- 1 All Other Controls for Camera to Include:
  - 1 Camera Iris and Focus Override & Zoom
  - 1 Camera Lights & Shutter Control for Light Enhancement
  - 1 Camera Diagnostics & Auto Home
- 1 Cruise Control to Set Speed of the Transporter for Hands Off Operation
- 1 All Reel Controls to Include: Retrieve, Release, and Variable Speed [Excluding Dolly Systems]

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 WIRELESS CONTROLLER

- 1 Joystick Control for Pan and Tilt Zoom Camera to Include:
  - 1 360 Degree Rotate
  - 1 330 Degree Optical Pan
- 1 Joystick Control for All Steering Functions & Forward / Reverse Directions for Transporter
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  - 1 Camera Diagnostics & Auto Home
- 1 Cruise Control to Set Speed of the Transporter for Hands Off Operation
- 1 All Reel Controls to Include: Retrieve, Release, and Variable Speed [Excluding Dolly Systems]

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 1000' CABLE ASSEMBLY, M/C 12PIN METAL

- 1 1000' Gold Multi Conductor Kevlar Fiber Armored Combination TV Transmission / Tow Cable
- 1 .450 Diameter
- 1 Metal Splice Chamber with Pigtail
- 1 Cable Strain Relief

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 WHEELED DOLLY, 110V TO INCLUDE:

- 1 Electric Motor Rewind
- 1 Hand Crank
- 1 Automatic Levelwind
- 1 Electronic Footage Meter

1 CABLE 16'-CONTROL UNIT TO DOLLY

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

1 DVR / SD ASSEMBLY KIT WITH HARDWARE

Comply: Yes\_\_\_\_\_No\_\_\_\_\_

- 1 Install Computer with software
  - 1 Install computer and software
  - 1 Supply all interface cables to monitor, footage unit and power
  - 1 19" Monitor with desk mount

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 PCU ENCLOSURE FOR DOLLY TO INCLUDE
  - 1 Gooseneck Microphone
  - 1 Mini Keyboard
  - 1 Power Cable

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 TIGER TAIL

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 MANHOLE TOPROLLER ASSEMBLY, TV ONLY

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 3 RETRIEVAL/DOWNHOLE POLE ASSEMBLY

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 RETRIEVAL HOOK

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 TRAINING, ON-SITE (TWO DAYS)

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 Install cabling and wireless receiver and A/B video switch for optional pole camera

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 12"-15" PNEUMATIC TIRES WHEEL SET (Optional)

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

- 1 TRAILER DELIVERY-FLORIDA

Comply: Yes \_\_\_\_\_ No \_\_\_\_\_

**TV TRAILER - 14' TANDEM AXLE**

A functional studio trailer, capable of being pulled behind a pick-up truck, will be furnished and outfitted to house all the necessary equipment for the Television Inspection System. The trailer shall include the following (minimum):

Lights: Approved ICC light package  
GVW: Gross Vehicle Weight Rating - 7000 lb.

Miscellaneous:  
Full width rear doors  
Side entry door to viewing room - 32"  
Single axle  
Jack ram hoist and a 2-5/16" coupler  
24" Stone Guard  
Extended Tongue  
Four (4) Scissor Jacks  
Insulated Walls and Ceiling

**TV TRAILER DIMENSIONS INTERIOR:**

Height - 6' 5"  
Length - 14'  
Width - 7'

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**TRAILER INTERIOR / INTERIOR**

**EXTERIOR**

The trailer shall include one amber warning beacon mounted on the roof.

Dual adjustable 12V halogen floodlights (work lights) shall be mounted at the rear of the trailer.

**INTERIOR**

One (1) dual bulb indirect fluorescent light fixture shall be supplied for optimum lighting. Track lighting shall be deemed unacceptable due to the heat produced from the bulbs.

(2) Duplex interior electrical outlet shall be supplied.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**ROOF MOUNTED AIR CONDITIONER**

A roof mounted 9200 BTU air conditioner with heat strip shall be supplied.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**10 to 15 GALLON (37.854L to 56.781L) FUEL TANK**

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**GASOLINE GENERATOR W/ELECTRIC START - 5500 WATT**

Generator

- Shall be the product of a firm regularly engaged in the manufacture of gasoline powered generators.
- Shall be designed for commercial mobile applications capable of handling the load of intermittent heavy-duty use for sewer/stormwater line television inspection units.
- Shall be capable of continuously producing 5500 watts of power at 120 volts AC without undue heating, wear or vibration.
- Shall be enclosed in a sound-attenuated housing and furnished with a 4-point mounting system with coil spring vibration isolators to ensure quiet operation.
- Shall have a heavy-duty industrial muffler for reduced noise and ease of installation.
- Shall include self-diagnostic capabilities to simplify troubleshooting.
- Shall include digital voltage regulation to ensure voltage stability as loads change.
- Shall include over speed/under speed protection and low power factor field over current protection.
- Shall include an integral USDA Forest Service-approved spark-arrestor muffler.
- Sound level: 60 Hz, 70dB(A) at 10 ft, typical installation, full load

Engine

- Shall be an OHV, 4-cycle, 90 degree V-twin, two-cylinder gasoline unit.
- Shall be designed to operate the generator at 60 cycles + or - 2 cps and shall be governor controlled to maintain these cycles under varying load conditions.
- Shall be equipped with pressurized thru flow cooling system and an oil alert system to automatically shut off the engine to prevent damage when the oil level drops below the recommendation level.
- Shall be equipped with electrical starting control (electronic ignition) for local and remote start/stop operation.
- Ignition system: electronic magneto type with resistor plugs.
- Shall include a revolving field, AC, 2-pole self-excited, two bearing alternator.
- Oil capacity: 2 quarts

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**GENERATOR COMPARTMENT**

- Enclosed cabinet with a fire retardant liner, locking vented door with a recessed stainless steel lock, and spark free exhaust system.
- A 30-amp external shore power receptacle shall be provided.
- Shore power to generator switchover shall be accomplish through a UL approved automatic changeover switch with suitable time delay to avoid damaging power surges.
- A 25 foot, 30 A shore power extension cable shall be supplied.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**SYSTEM ENGINEERING PANEL**

The engineering panel shall provide monitoring of the power supply to the system. The panel circuitry shall be assembled in a rack-mounted chassis for installation in a built in control console. The faceplate shall be heavy gauge aluminum finished with an industrial grade surface and shall have permanent labels designating the function of the various switches and controls. Provisions shall be made on the panel for the following items:

- AC Volt Readout
- AC Frequency Readout (58-62 Hertz)
- Generator Remote Start/Stop
- Generator Run Time Readout

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

## **PAN, TILT, and OPTICAL ZOOM CAMERA**

The Pan, Tilt, and Zoom Camera shall be designed for use in 6" diameter relined pipe and larger. The unit will be designed to provide close-up views of pipe walls during inspection including minute defects and voids. The unit will be color, shall operate optimally through a maximum of 4000' multi conductor or 2000' single conductor cable, and shall consist of the following (minimum):

### Camera

- Chassis construction shall include 100% solid state circuitry designed to withstand shocks and vibration normally sustained while being pulled through a pipe.
- The camera module shall be an industrial model only.
- REPACKAGED CONSUMER GRADE CAMERAS (I.E. CAMCORDERS) WILL BE DEEMED UNACCEPTABLE FOR USE IN A PIPELINE TELEVISION INSPECTION SYSTEM.
- Operating temperature ranges of the camera shall be 0 degrees C to 50 degrees C.
- CAMERAS INCORPORATING BUILT IN LIGHTING SYSTEMS THAT GENERATE HEAT EXCEEDING THE OPERATING TEMPERATURE PARAMETERS LISTED BY THE BASE STOCK CAMERA MANUFACTURER WILL NOT BE ACCEPTABLE.
- The camera shall develop a true color and transmit a sharp image picture on the video bandwidths only.
- PICTURE TRANSMISSION SYSTEMS THAT REQUIRE THE USE OF R.F. SUPPRESSORS AND ARE SUBJECT TO LOCAL TRANSMITTER INTERFERENCE SHALL NOT QUALIFY AS BEING EQUAL.
- Full color video bandwidths shall be provided with no sacrifice of low frequency response. There shall be no visible streaking of the low frequency test bars when viewing a standard EIA Test Chart.
- Shall not exceed an overall length of 17.7", a head length of 6.6", and a camera barrel diameter of 3".

### Camera Optical & Digital Zoom

- Optical & digital zoom and zoom & focus speeds shall be selectable from the maintenance terminal.
- Remote control of pan, tilt, pan and tilt homing, optical zoom, manual focus, automatic focus, shutter speed, frame integration, manual iris, diagnostics and internal lights shall be provided.
- Optical Zoom Range: 10x
- Digital Zoom Range: 4x (40x with optical zoom) - Total effective zoom ratio: 40:1
- The lens shall be an automatic iris type with a manual override (controlled from the control console) to control the illumination range for an acceptable picture between 3 and 10,000 lux.

### Pan and Rotate Speeds

- Full Pan (no load): 56 deg/sec, full pan in 5-7 seconds
- Full Rotation (no load): 31 deg/sec, full rotation in 11-13 seconds

### Camera Housing

- The camera mechanics and electronics shall be housed in a high strength, damage resistant, aluminum housing with a stainless steel tube.
- The rear portion of the camera shall not exceed 3 inches in diameter to allow for operation in skids and self-propelled units that are designed for 3-inch diameter cameras.
- The housing shall be 1/8" minimum wall thickness.
- HOUSINGS WITH THINNER STAINLESS STEEL WALLS OR ALUMINUM WALLS THAT EASILY DENT ON IMPACT WILL NOT BE CONSIDERED EQUAL.
- The front of the camera head housing shall have a view port of optical grade sapphire.
- The rear of the housing shall have a recessed bell to protect the indexed cable connector.

### Mounting Fork

- The forward portion of the camera shall not exceed 4.5 inches in diameter and will include the mounting fork, camera head and lighting.
- The camera forks must be rounded or chamfered and be the same diameter as the forward portion of the camera to eliminate any sharp corners that can become caught on obstructions.
- CAMERA FORKS THAT EXCEED THE DIAMETER OF THE CAMERA HOUSING THAT ARE SUBJECT TO DAMAGE INSIDE THE PIPE ARE NOT ACCEPTABLE.
- The mounting fork will rotate 360 degrees with an optical viewing angle of 400 degrees and shall allow the camera head to pan mechanically 285 degrees with a pan viewing angle of 331 degrees.

### Camera Lighting

- Shall be remotely controlled from the control console.
- Shall be integrated into the camera and include four 12W xenon lamps equaling 48 watts.
- Shall provide adequate lighting in pipe sizes from 6" - 72" in diameter.
- CAMERAS THAT REQUIRE EXTERNAL MOUNTED NON-DIRECTIONAL LIGHTING FOR 36" THROUGH 72" PIPE ARE NOT ACCEPTABLE.

## **ELECTRICAL SPECIFICATIONS and CAMERA REQUIREMENTS**

### Video Output

- Multi-Conductor Version: 1 V, S/N 46dB or greater
- Single-Conductor Version: FM modulated 9.8mHz to 11.3mHz

#### Integrated Lights

- 4 x 12W xenon lamps
- Power consumption: 48W max 12V
- Illumination: 80 mscp (1000 lumens)
- Lamp life: 200 hours
- Color temp: 3000°K

### Image Pick-up Device

- Interline transfer 1/4 inch CCD color

#### Picture Elements (pixels)

- Solid state 1/4" diagonal pixels: 768 (H) x 494 (V) = 379,392 elements (NTSC)

### Lens

- 10x Zoom f=4.2mm to 42mm (F1.8 to F2.9)

### Digital Zoom

- 4x (40x with optical zoom)

### Field of View

- 56° diagonal, 46° (H) wide, 4.6° (H) tele end

### Resolution Lines

- 470 TV lines horizontal

### Electronic Shutter

- 1/4 s to 1/10,000 s, 20 steps

### Minimum Illumination

- 3 lux @ F/1.4

### Input Camera Voltage

- Single-Conductor Version: 64V to 160V
- Multi-Conductor Version: 20-72V from controller



#### Head Rotation

- Axial Rotation: 360°
- Rotation Optical Viewing Angle: 400°
- Lateral Pan: 285°
- Pan Viewing Angle Range: 331°
- Operate in a 6" Relined Pipe
- Rotational Diameter: 4½"

#### Internal Diagnostics

- Humidity sensor, CCD temperature, camera voltage, light head voltage, serial number identification, and operating hour meter.
- CAMERAS WITHOUT THE AFOREMENTIONED DIAGNOSTICS WILL BE DEEMED UNACCEPTABLE.

#### Working Pressure

- 50 PSI (minimum)

#### Operating Temperature

- 0° to 50°C

#### Compatible PCU's

- Multi-conductor Version: 1208 Mainline PCU and Inspector General portable PCU
- Single-Conductor Version: SC-2000 CCU

#### Compatible Cables

- Multi-Conductor Version: Up to 4000'
- Single-Conductor Version: Up to 2000'

#### Dimensions

- Overall length: 17.7", Head length: 6.6", Body tube diameter: 3", Head rotational diameter, 4½"

#### Weight

- TBD

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

### **SELF-PROPELLED CAMERA TRANSPORTER - WITH PROPORTIONAL STEERING**

A self-propelled camera transporter shall be provided for inspecting relined pipe and storm drains/wastewater pipelines measuring 8" and up in diameter. The transporter assembly shall be designed to operate optimally with 1500' multi-conductor cable and shall consist of the following (minimum):

#### Transporter

- ·Shall include the following (minimum) equipment: (6) Driven Wheels, available in various sizes.
- ·Shall operate through a minimum of (1500) feet of multi conductor video cable in suitable pipe conditions.
- ·Shall include a two-speed transmission to optimize traction by doubling the torque in difficult pipe conditions or in larger diameter pipe.
- ·There will be a protected manual shifter assembly on the transporter to facilitate quick gear ratio changes.
- **CAMERA TRANSPORTERS WITH A ONE SPEED / GEAR RATIO TRANSMISSION SHALL NOT BE ACCEPTABLE DUE TO THE SUBSTANTIAL REDUCTION OF TORQUE / TRACTION PRODUCED WHEN LARGER DIAMETER WHEELS ARE USED.**
- ·Shall have sufficient power and traction to inspect a minimum of (1000) feet from the manhole entry point in suitable pipe conditions.
- ·Shall include a heavy-duty drive motor specifically designed to meet the power requirements of the system, regardless of size of pipe being inspected.
- ·Shall be equipped with self-propelled power forward, power reverse, and free wheel capabilities.
- ·Shall be constructed of brass, stainless steel, and aluminum alloy.
- ·Shall have speed and direction controlled from the control console.
- ·Shall be retrievable in the free wheel mode by the video cable reel to reduce the normal wear on the drive motor by 50%.

- .Shall have full, variable speed in power forward or power reverse modes.
- .Shall have full, variable speed in power forward or power reverse modes. The maximum speed for camera / transporter assemblies shall be 45 fpm in high gear for pipe configurations up to 15" and 65 fpm in low gear for pipe configurations up to 60".
- CAMERA / TRANSPORTER ASSEMBLIES INCAPABLE OF OPERATING AT THE SPECIFIED SPEEDS WILL BE DEEMED UNACCEPTABLE.
- .Shall include an electrical connection for an external light source to ensure a clear picture in various pipe configurations.
- .The self- propelled camera carrier shall weigh a maximum of 35 lbs. without the camera in the 8" configuration and shall weigh no more than 76 lbs. in the 30" configuration.
- The length of the transporter shall not exceed 22.6".
- .TRANSPORTERS EXCEEDING 22.6" SHALL BE DEEMED UNACCEPTABLE.
- .Shall include full proportional steering with the ability to conduct a complete 360 degree turn within its own radius.

#### Camera Compatibility

- .Shall be designed to be compatible with pan and tilt, fixed view, straight line, and optical zoom pan and tilt cameras.
- .The transporter, when used with an optical zoom pan and tilt camera, shall fit into an 8" diameter relined pipe and will have the ability to operate in an 8" diameter pipe with offsets.
- ALL TRANSPORTER / OPTICAL ZOOM CAMERA COMBINATIONS THAT ARE UNABLE TO OPERATE IN 8" DIAMETER PIPE WILL BE DEEMED UNACCEPTABLE.
- The transporter, when used with the pan & tilt camera, shall fit into a 7" diameter circular area with the camera in the home position to optimize clearance in an 8" diameter relined pipe.
- ALL TRANSPORTER / PAN & TILT COMBINATIONS THAT ARE UNABLE TO OPERATE IN 8" RELINED PIPE SHALL BE DEEMED UNACCEPTABLE.
- The combined length of the transporter / pan & tilt camera assembly shall not exceed 29 ¼" with the camera in the home position.
- .This will allow the inspection and traversal of 8" diameter pipe with off sets or meandering conditions and facilitate entry into short inverts.
- CAMERA / TRANSPORTER ASSEMBLIES EXCEEDING 29 ¼" IN LENGTH WILL BE DEEMED UNACCEPTABLE.

#### Tires

- .The Transporter shall include (6) wheels, available in various sizes, designed to maximize traction in each pipe size.
- .The transporter shall be capable of inspecting pipes up to 60" diameter with the addition of larger diameter wheels.
- .The (2) smaller diameter wheels, designed to help negotiate offsets in larger pipe configurations, shall remain affixed to the middle axle, regardless of pipe size to be inspected.

TRANSPORTERS DRIVEN BY BELTS WILL NOT BE ACCEPTABLE.  
TRANSPORTERS WITH EXTERNAL DRIVE TRAIN COMPONENTS WILL BE UNACCEPTABLE.

"ALL BIDDERS MUST SUPPLY A MINIMUM OF 10 REFERENCES WITH THE EXACT AFOREMENTIONED EQUIPMENT. REFERENCES FOR LARGE STEERABLE TRANSPORTERS 24" AND LARGER THAT DO NOT FIT INTO 8" THROUGH 18" PIPE WILL NOT BE ACCEPTABLE REFERENCES. THIS EQUIPMENT MUST BE IN PRODUCTION AND IN SERVICE FOR A MINIMUM OF ONE YEAR OR THE EQUIPMENT WILL BE DEEMED UNACCEPTABLE."

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

TIRE MATRIX FOR 18"-60" PIPE DIAMETER

Tires/Wheels	Knobby Tire, 10.5" Diameter, Qty.
18"	4
21"	4
24"	4
30"	4
36"	4
48"	4
60"	4

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

### **ELECTRIC CAMERA LIFT (Optional)**

- An electronic, remote controlled, infinitely variable camera lift shall be provided to prevent the need for an operator to enter the manhole to position and/or reposition the camera height.
- Shall be constructed of stainless steel and aluminum and designed for use in 10" - 36" diameter pipe.
- Shall be able to provide a 'center of pipe' view.
- Shall be operated with the remote camera carrier controller.
- The transporter, when used with the pan and tilt optical zoom II camera, shall have the following variable camera heights:
- Small wheel configurations (10"-15"): variable from 3.9" in the collapsed position to 11.77" in the extended position
- Large wheel configurations (18"-36"): variable from 7.16" in the collapsed position to 15.02" in the extended position
- The height shall be adjusted from the collapsed position to the extended position with the remote camera carrier controller.
- The time required to accomplish the full height position in either small or large configurations shall not exceed 5 seconds.
- Shall include an automatic drop-down feature when powered 'OFF' to ensure safety.
- Shall include an extended y-eliminator cable and all necessary mounting hardware.
- Shall include an automatic latching hook with steel wire cable for easy transporter retrieval.
- Shall be manufactured with o-rings and oil seals that are designed to prevent water intrusion.
- The maximum lift weight: 16lbs. Overall weight: 10lbs.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

### **INTEGRATED POWER CONTROL UNIT**

A fully integrated camera, lighting, and crawler control unit, built into a protective portable thermoplastic case, shall be provided. The control unit shall include a built-in 10.4" solid-state color monitor to display video, system configuration and diagnostic conditions.

A built-in alpha/numerical video character generator and display shall be provided. The data generator shall generate footage count, defect information, and/or free-form comments, for display on the video monitor and recording. A standard (IBM) "QWERTY" keyboard shall be provided for generating defect and commentary entry. The format and position of the on-screen data shall be adjustable, within the video display, to fit pipe conditions or operator requirements. The Character Generator shall have a minimum of 55 preprogrammed defect codes and 70 user programmable defect information codes. WRC and PACP code systems shall be stored and be activated upon demand.

The control center shall operate from a 110VAC or 220VAC 50Hz. or 60 Hz. power source. It shall not be necessary to adjust the camera voltage to accommodate different lengths and types of cable (flexible or integrated push/ rod type). Other external connections shall include a buffered external video monitor output, a USB port, audio and video VCR input/output plugs (4). The Control Center must be capable of operating a mini camera, pan & tilt camera, and pan & tilt zoom camera used with skids or a tractor without the use of external adapter modules.

The built-in video display monitor shall be a 10.4" solid-state color unit.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

## **PORTABLE CONTROLLER**

A hand held portable controller for a pan & tilt type camera, steerable transporter and reel will be provided. The controller will be capable of wireless operation, and include a weatherproof 24 key membrane panel with indicator lights. Joystick controls will be provided for camera pan and tilt operation and transporter forward, reverse and steerable functions. Camera controls will include focus and iris override, zoom, lights and light intensity, pan and tilt homing, one button auto focus, and diagnostics. Transporter controls will include cruise control and camera lift operation. Reel controls will include retrieve and release mode, and speed [Not applicable on Dolly applications]. The controller shall be fabricated of a high impact plastic material, and housed in a neoprene boot for protection. A holster shall be provided for storing the remote at the control unit.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

## **COMBINATION VIDEO TRANSMISSION/TOW CABLE, KEVLAR FIBER ARMORED, - MULTI-CONDUCTOR**

A combined video and towing cable shall be furnished in a continuous length of 1000 feet (minimum) and shall consist of the following (minimum):

### **Cable**

- The cable shall consist of a coaxial core wrapped with a braided wire shield ground return.
- An additional braided wire shield shall encircle both the coax and ground return and shall act as a Faraday shield.
- CABLES WITH ONLY A SINGLE BRAIDED WIRE SHIELD ACTING AS A GROUND RETURN SHALL BE DEEMED UNACCEPTABLE.
- A total of 10 separately insulated and color-coded 18/20 gage standard copper conductors shall be bundled and twisted in groups of 3 with one conductor remaining single.
- To prevent cable breakage when placed under load, all wire bundles, wires, and the coax shall twist in a serpentine pattern for the entire length of the cable so that all wires, including the coax, are the same total lengths.
- CABLES THAT HAVE A 'CENTER' COAX, MAKING IT THE SHORTEST AND THEREFORE THE MOST EASILY BROKEN CONDUCTOR, SHALL BE DEEMED UNACCEPTABLE.
- The cable diameter shall be no greater than .450 inches and shall be able to withstand external pressures of up to 400 psi.
- The cable weight shall not exceed 110 lbs. per 1000 feet.

### **Cable Jacket**

- The exterior of the cable shall consist of a minimum 1/16" thick abrasion resistant high-density nylon composite outer jacket embedded with Kevlar fibers to provide the cable with the required towing tensile strength.
- Shall provide a lower coefficient of friction to reduce drag and therefore increase its resistance to wear.

### **Cable Connection**

- The end of the multi-conductor cable shall be equipped with a waterproof scotchcast and/or waterproof metal splice chamber to allow for the direct wiring of the female connectors.
- An adjustable strain relief shall be provided to transfer the cable towing strength from the cable to the camera skids or transporter.
- The termination shall consist of the necessary connectors and dummy plugs.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**MOTORIZED TV CABLE DOLLY ASSEMBLY**

A portable, motorized cable dolly shall be supplied for storing the TV cable. The Dolly shall have sufficient capacity to hold up to 1000 feet of multi conductor mainline TV cable. CABLE REELS THAT WILL NOT ACCOMMODATE A MINIMUM OF 1000 FEET OF MULTI CONDUCTOR CABLE WILL NOT BE ACCEPTABLE.

The dolly shall be equipped with a continuous contact assembly with a minimum of 12 gold plated sliprings and levelwind cable handling system. The slipring assembly shall have a load capacity of not less than 10 Amps at 120 Volts. SLIPRING ASSEMBLIES INCORPORATING LISTED HAZARDOUS MATERIALS (I.E. MERCURY) SHALL NOT BE ACCEPTABLE.

The dolly frame shall be constructed of lightweight tubular steel. The entire assembly shall be finished with a rust resistant white epoxy based industrial coating. The dolly shall be equipped with two pneumatic wheels for easy handling. The weight of the dolly shall not exceed 200 pounds including cable. The dolly shall not exceed 46" high by 25" wide to allow for easy movement through doors and passages.

The dolly shall provide free wheel cable discharge and a variable speed 1/4 HP electric take up motor for cable retrieve and rewind. The dolly shall contain up to 1000' of multi-conductor mainline cable.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**(DVR-SD) RECORDER**

A 100% solid state digital recording unit for manhole and pipeline inspections. The DVR shall record MPEG 4 digital videos in avi format directly to a provided minimum 16 GB SD card in NTSC and PAL formats. It also takes snapshots and stores them in JPEG format. The DVR unit shall allow audio recording and playback via audio line in / out connections. The digital video shall be played back locally or via remote office PC or Laptop using Windows Media Player with the appropriate codec. The K-Lite codec software can be downloaded free of charge and works in conjunction with the Windows Media Player.

**Recording Mode Settings:**

The DVR unit offers two recording resolutions in accordance with the H.264 digital compression specification:

- 702 X 480
- 352 X 240

In addition, three levels of recording quality are selectable which influence the amount of compression:

- High
- Medium
- Low

**Indicators:**

A green LED provides "Power On" indication and a Red LED provides "Recording" indication.

The video recording shall allow multiple recordings to the provided 16 GB flash drive. The video file name shall be created automatically per each recording.

**Vide Storage**

The digital videos shall be created direct to a removable SD card.

**Video storage durations at High Quality (16 GB Flash drive):**

- Good: 44 Hours
- Better: 22 Hours
- Best: 12 Hours

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**PCU ENCLOSURE FOR DOLLY**

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**TIGER TAIL**

A standard 4" diameter Tiger Tail wastewater jet hose guide shall be provided for maximum Downhole TV cable protection.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**MANHOLE TOP ROLLER ASSEMBLY**

A manhole top roller assembly shall be provided to protect the TV cable entry at the manhole cover ring. The roller assembly shall be a welded steel frame incorporating a minimum 6" diameter cast aluminum roller.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**RETRIEVAL/DOWNHOLE POLE ASSEMBLY**

4.8 foot (57.5") quick coupling spring loaded extension pole will be supplied to connect to the down hole cable guides. To minimize weight, the quick coupling extension poles shall be constructed of .125" thick fiberglass tubing with an outside diameter of 1.25". The fiberglass tubing shall consist of 1 ounce continuous strand matt encapsulated with vinylester resin. The weight per each pole shall not exceed 2.8 lbs. The extension poles shall be corrosion resistant and orange in color to ensure visibility for added safety.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

**INSTRUCTION AND TESTING**

The supplier shall fully instruct and test buyers in the operation of the equipment furnished after delivery. The instruction period shall be of sufficient duration (number of days shown on the component list) to fully familiarize the buyers operating personnel. The instruction and testing shall be conducted by the supplier's field service technician and shall include component familiarization, theory of operation, equipment operation, field procedures, techniques of use, troubleshooting, maintenance recording and logging of sewer conditions and safety procedures. Training provided by sales or office personnel will not be acceptable.

Comply Yes\_\_\_\_\_ No\_\_\_\_\_

###

# PRICE SHEET

## TV Trailer System for Pipeline Inspection Bid 14-003

**Having read and become familiar with the specifications of the TV Trailer System for Pipeline Inspection-and having carefully examined the bidding requirements and specifications, the undersigned proposes to furnish all materials, equipment and incidentals to completely provide a working Stormwater TV Trailer System as specified.**

1. The Optical Zoom Pan and Tilt Camera:

**Unit Price:** \_\_\_\_\_

2. Steerable Wheeled Camera Transporter:

**Unit Price:** \_\_\_\_\_

3. Power Supply / Control unit with minimum 10" Flat Screen Lightweight Monitor with Sun Screen:

**Unit Price:** \_\_\_\_\_

4 Video Cable with minimum of .450" diameter, 2000 pound break strength, and weigh no more than 110lbs per 1000 ft.:

**Unit Price:** \_\_\_\_\_

5.1 7X14 Tandem AXLE TRAILER, 7000 GVWR to include:

- 1 Amber Electronic Strobe Warning Beacon
- 2 Adjustable Floodlights Rear of Trailer Area Illumination Interior:
  - 1 Dual Bulb Fluorescent Light Fixture
  - 1 Electrical Outlet with Dual Receptacles
  - 1 Fire Extinguisher with Bracket, 10BC Rating
- 1 9200BTU ROOF MOUNTED AIR CONDITIONER WITH HEAT STRIP
- 1 BULKHEAD WALL WITH DOOR AND PLEXIGLASS WINDOW FOR TRAILER
- 1 DESK/WORK AREA FOR TRAILER
- 1 LONSEAL LONPLATE FLOORING FOR TRAILER
- 1 10 to 15 GALLON (37.854L to 56.781L) FUEL TANK
- 1 5500 WATT GAS ONAN EVAPORATOR GENERATOR, 120 Volt 60 HZ 5500 Watt (Minimum) commercial grade, Gasoline Powered, Electric Start

**Unit Price:** \_\_\_\_\_

6. KNOBBY TIRE Kit 18" - 60"

**Unit Price:** \_\_\_\_\_

7. ELECTRIC CAMERA LIFT (Optional)

**Unit Price:** \_\_\_\_\_

8. PCU ASSEMBLY, NTSC

**Unit Price:** \_\_\_\_\_



9. WIRED USB CONTROLLER

**Unit Price:** \_\_\_\_\_

10. WIRELESS CONTROLLER

**Unit Price:** \_\_\_\_\_

11. 1000' CABLE ASSEMBLY, M/C 12PIN METAL

Unit Price: \_\_\_\_\_

12. WHEELED DOLLY, 110V:

**Unit Price:** \_\_\_\_\_

13. CABLE 16'-CONTROL UNIT TO DOLLY

**Unit Price:** \_\_\_\_\_

14. DVR / SD ASSEMBLY KIT WITH HARDWARE

**Unit Price:** \_\_\_\_\_

15. Install Computer with software

**Unit Price:** \_\_\_\_\_

16. PCU ENCLOSURE FOR DOLLY TO INCLUDE, 1 Gooseneck Microphone, 1 Mini Keyboard, 1 Power Cable

**Unit Price:** \_\_\_\_\_

17. 1 TIGER TAIL

**Unit Price:** \_\_\_\_\_

18. MANHOLE TOPROLLER ASSEMBLY

**Unit Price:** \_\_\_\_\_

19. RETRIEVAL/DOWNHOLE POLE ASSEMBLY WITH 1 RETRIEVAL HOOK

**Unit Price:** \_\_\_\_\_

20. TRAINING, ON-SITE (TWO DAYS)

**Unit Price:** \_\_\_\_\_

21. 12"-15" PNEUMATIC TIRES WHEEL SET (Optional)

**Unit Price:** \_\_\_\_\_

22. 1 TRAILER DELIVERY-FLORIDA

Unit Price: \_\_\_\_\_

**Summary Total** (Items 1 through 22)

Price: \_\_\_\_\_

**Price Sheet Signature Verification**

Company Name \_\_\_\_\_ PH \_\_\_\_\_

Name and Title of individual completing this schedule:

\_\_\_\_\_

(Printed Name)

(Title)

\_\_\_\_\_

(Signature)

(Date)